

What is claimed is:

1. A lens molding die which comprises:

a base member made of a hard material and having one surface of a predetermined shape; and

a resin-molded surface layer formed on said one surface of the base member and having a surface shape corresponding to a predetermined shape of one surface of a lens to be produced.

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2. The lens molding die according to claim 1, wherein the predetermined shape of said one surface of the base member is spherical while the surface shape of the resin-molded surface layer is aspheric.

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3. The lens molding die according to claim 1, wherein said resin-molded surface layer is inactive with a material to be molded by said lens molding die.

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4. The lens molding die according to claim 3, wherein said surface layer is made of a thermosetting resin material.

5. The lens molding die according to claim 3, wherein said surface layer is made of a ultraviolet-curable resin

material.

6. A method for producing a lens molding die, which comprises:

5 preparing a base member made of a hard material and having one surface of a predetermined shape;

forming a resin-made surface layer on said one surface of the base member to have a surface shape corresponding to a predetermined shape of one surface of a
10 lens to be produced.

7. The method for producing a lens molding die according to claim 6, wherein the predetermined shape of said one surface of the base member is spherical while the
15 surface shape of the resin-molded surface layer is aspherical.

8. The method for producing a lens molding die according to claim 6, wherein said resin-molded surface
20 layer is formed by a material which is inactive with a material to be molded by said lens molding die.

9. The method for producing a lens molding die according to 8, wherein said material of the surface layer
25 is a thermosetting resin material, and wherein said surface

layer is formed by heating said material.

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10. The method for producing a lens molding die according to 8, wherein said material of the surface layer is a ultraviolet-curable resin material, and said surface layer is formed by projecting ultraviolet rays thereto.

11. A method for producing a lens molding die, which comprises:

10 preparing a base member made of a hard material and having one surface of a predetermined shape;

preparing a transfer die made of a hard material and having a transfer surface of another predetermined shape;

15 disposing said transfer die and said base member by facing said transfer surface of the transfer die to said one surface of the base member to form a predetermined space therebetween;

introducing a resin-material into said predetermined space; and

20 hardening said resin-material to form a molded resin layer on said one surface of the base member, said molding die comprising said base member and said molded resin layer.

12. The method for producing a lens molding die
25 according to claim 11, wherein the predetermined shape of

said one surface of the base member is spherical while said another predetermined shape of the transfer surface is aspherical.

5 13. The method for producing a lens molding die according to claim 12, wherein said molded resin layer is formed by a material which is inactive with a material to be molded by said lens molding die.

10 14. The method for producing a lens molding die according to 13, wherein said material of the molded resin layer is a thermosetting resin material, and wherein said molded resin layer is formed by heating said material.

15 15. The method for producing a lens molding die according to 13, wherein said material of the molded resin layer is a ultraviolet-curable resin material, and said molded resin layer is formed by projecting ultraviolet rays thereto.

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16. The method for producing a lens molding die according to claim 15, wherein said base member is made of a transparent material and said ultraviolet rays are projected to said layer through said base member.

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17. The method for producing a lens molding die according to claim 15, wherein said transfer die is made of a transparent material and said ultraviolet rays are projected to said layer through said transfer die.

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18. The method for producing a lens according to claim 12, which comprises:

preparing a first lens molding die having the molded resin surface of a first predetermined shape corresponding to one surface shape of the lens to be produced;

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preparing a second lens molding die having the molded resin surface of a second predetermined shape corresponding to another surface shape of the lens to be produced;

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disposing said first and second lens molding dies with facing the molded resin layers thereof toward each other to form a predetermined space therebetween;

introducing a material into said predetermined space; and

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hardening said material to form the lens having said one and another surfaces.

19. A lens produced by said method for producing a lens defined in claim 18.

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